

## Beamline Hazard Analysis - Beamline

LS-BHA-U4A

Revision: 02

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Page 1 of 1

The following tasks are included in the beamline safety review. Any operations not listed here, or performed by others than those listed, need additional review by ES&H personnel and/or beamline personnel.

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\* Approval signatures on file with master copy

Tasks / Equipment	Performed by:		Controls
	Beamline Staff	Users	
Using the LN2 Fill Station or pressurized transfer	Y	Y	<ul style="list-style-type: none"> <li>• Training for LN2 fill station</li> <li>• Use full face shield along with goggles or safety glasses</li> <li>• Long pants and sleeves - avoid clothing which can trap cryogenics (pockets, cuffs)</li> <li>• Cryogen or heavy gloves</li> <li>• Enclosed shoes</li> </ul>
Liquid helium transfer	Y	Y	<ul style="list-style-type: none"> <li>• Use full face shield along with goggles or safety glasses</li> <li>• Long pants and sleeves - avoid clothing which can trap cryogenics (pockets, cuffs)</li> <li>• Cryogen or heavy gloves</li> <li>• Enclosed shoes</li> <li>• Use guidance/checklist from PRM 5.1.0</li> </ul>
Class 2/3a laser	Y	N	<ul style="list-style-type: none"> <li>• Laser registration, warning signs</li> </ul>
Ergonomics concerns – pinch points/sharp edges	Y	Y	<ul style="list-style-type: none"> <li>• Warning signs</li> <li>• Training</li> </ul>
High temperature	Y	Y	<ul style="list-style-type: none"> <li>• BLOSA Training</li> </ul>
Working at heights	Y	Y	<ul style="list-style-type: none"> <li>• Be aware of body posture, training</li> </ul>
Visible light	Y	Y	<ul style="list-style-type: none"> <li>• Covers</li> <li>• Warning signs</li> <li>• Training</li> </ul>